

Light efficiency:

107 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

3010 K

Output: 1767 lm

Peak: 5930 cd

Power: 16.6 W

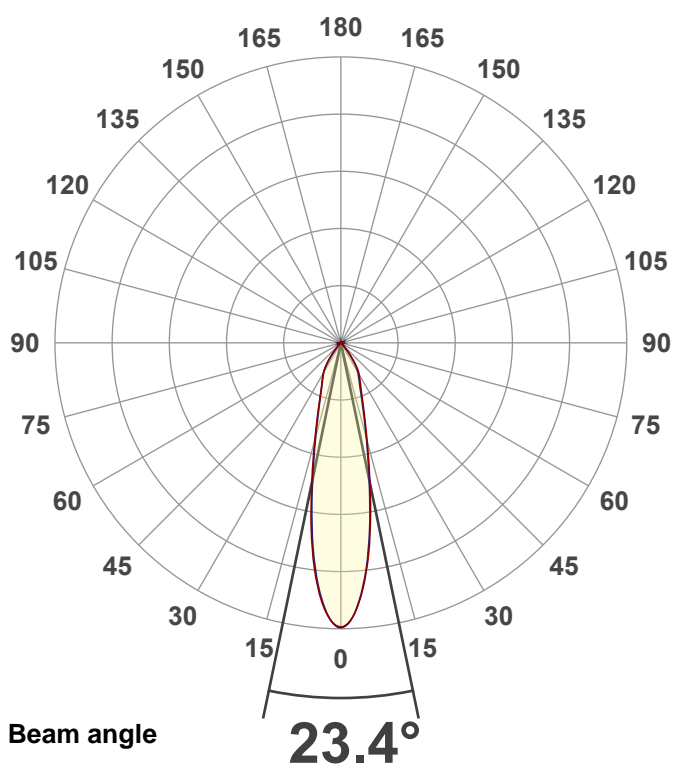
PF: 0.97



BETA-3R-SW-20LM-30K-80-25C-WH-WH

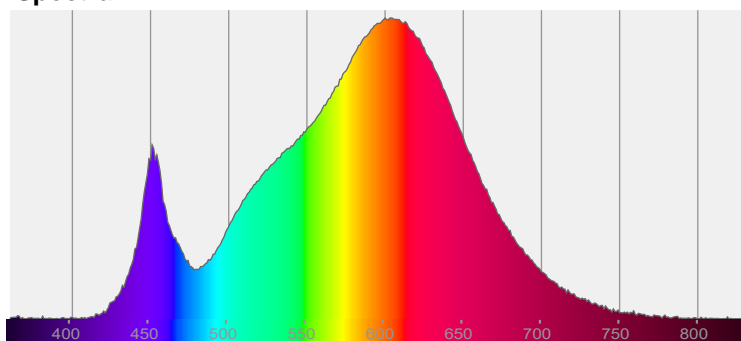
Date and time:

12/28/2022 10:34:53 AM

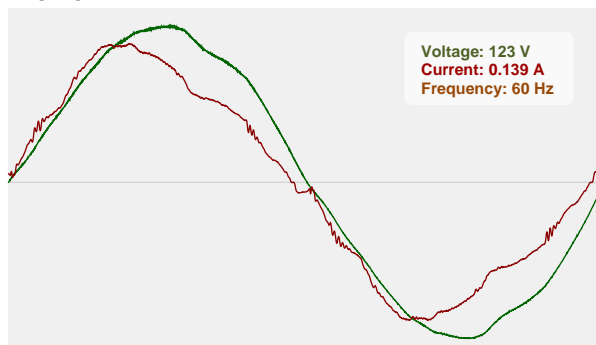


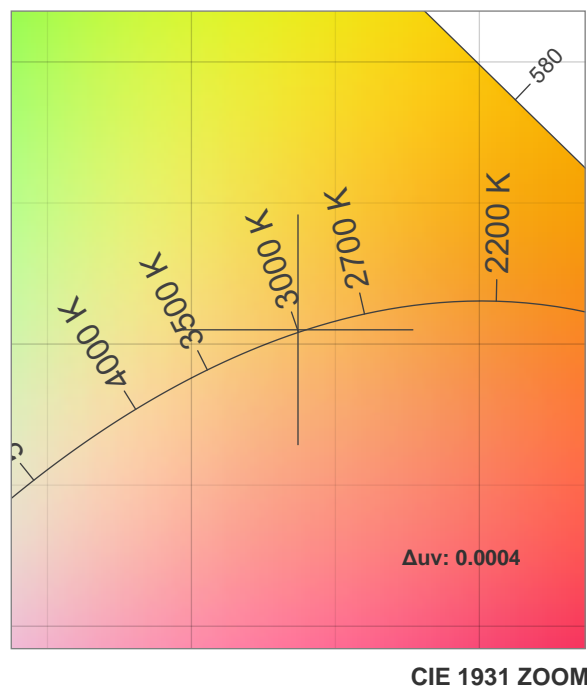
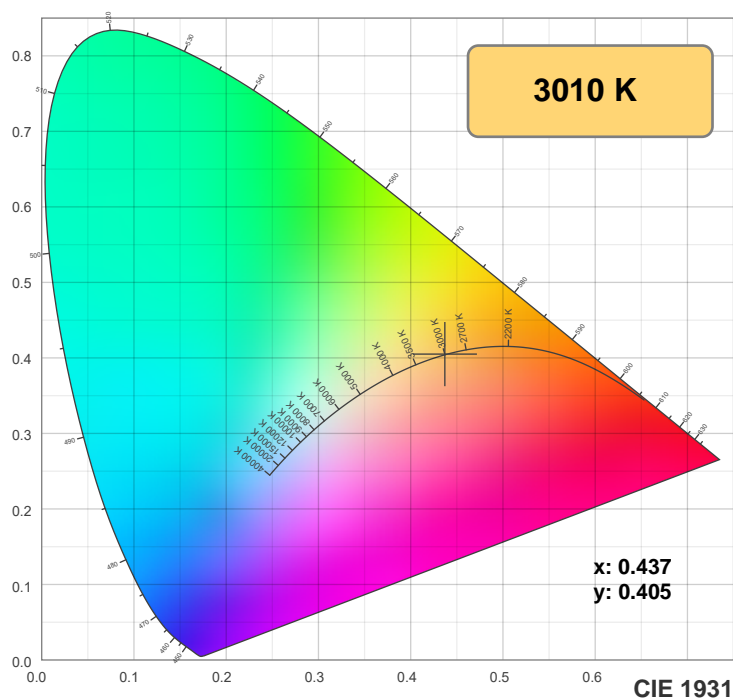
CIE 1931  
x: 0.437  
y: 0.405

Spectra

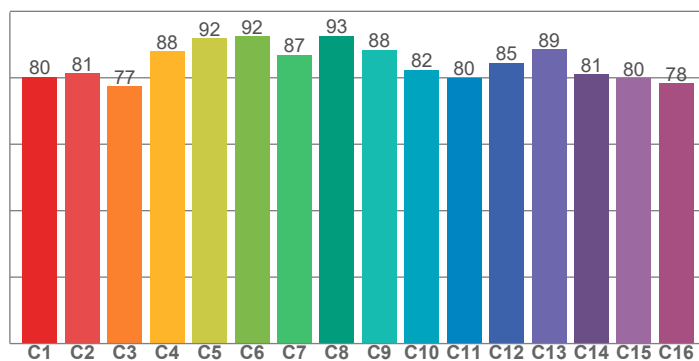


Power

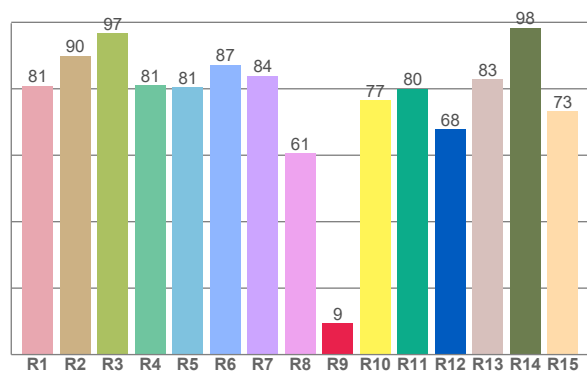




TM30: 84.5



CRI: 82.6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
80.9	90.0	96.8	81.0	80.5	87.3	84.0	60.7	9.5	76.6	80.0	67.8	83.0	98.4	73.3

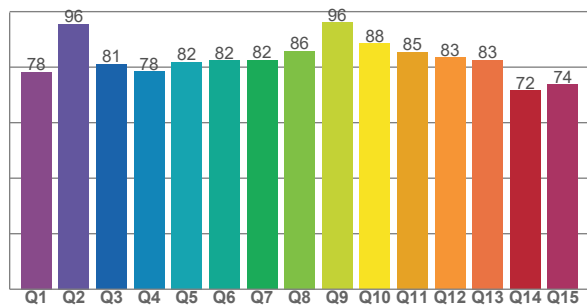
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.4	81.4	77.5	88.0	91.9	92.5	86.9	92.6	88.5	82.3	79.9	84.6	88.6	81.1	79.8	78.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.2	95.6	81.0	78.4	81.8	82.4	82.5	85.7	96.0	88.5	85.5	83.4	82.5	71.6	73.7

CQS: 81.8



## Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	$\Delta uv$
3010 K	82.6	9.5	84.5	96.4	81.8	0.437	0.405	0.250	0.348	0.0004

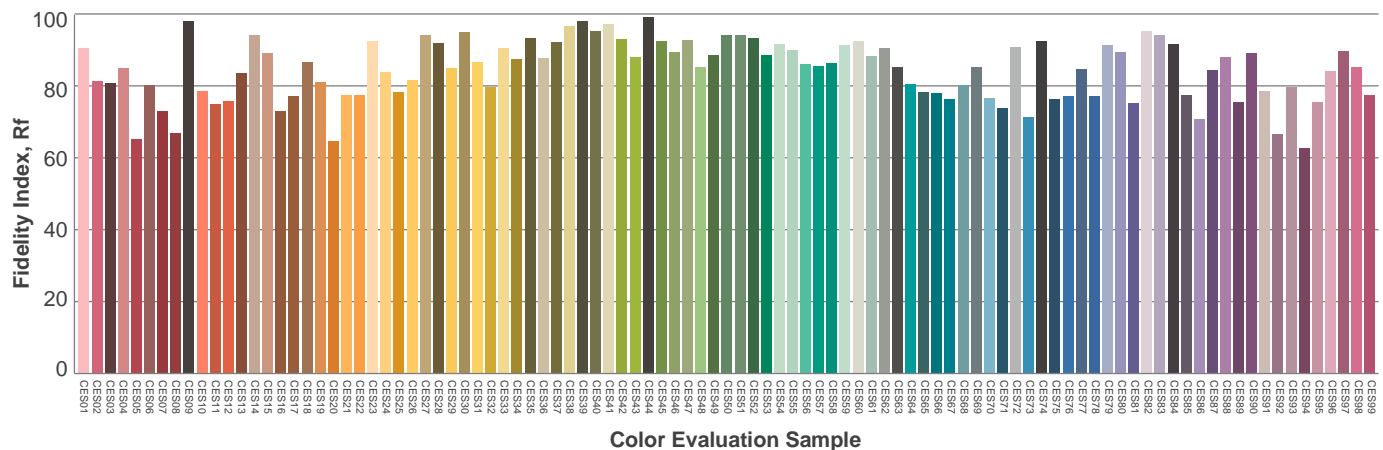
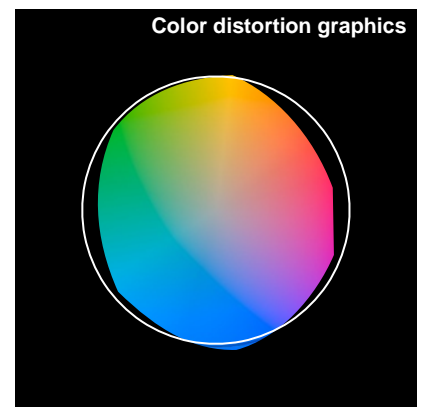
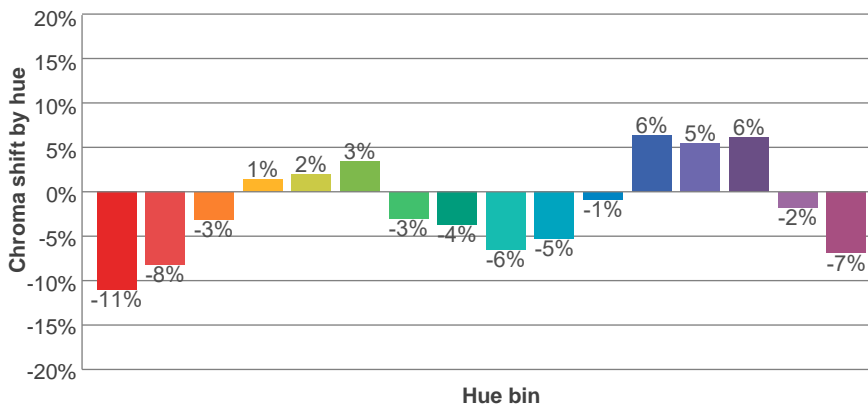
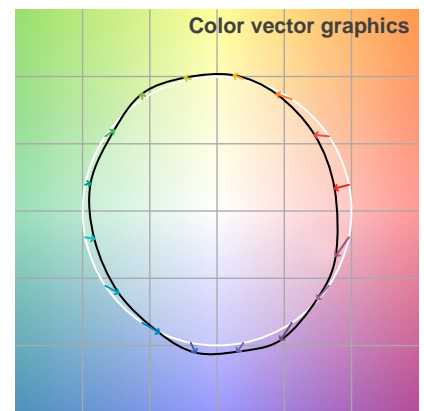
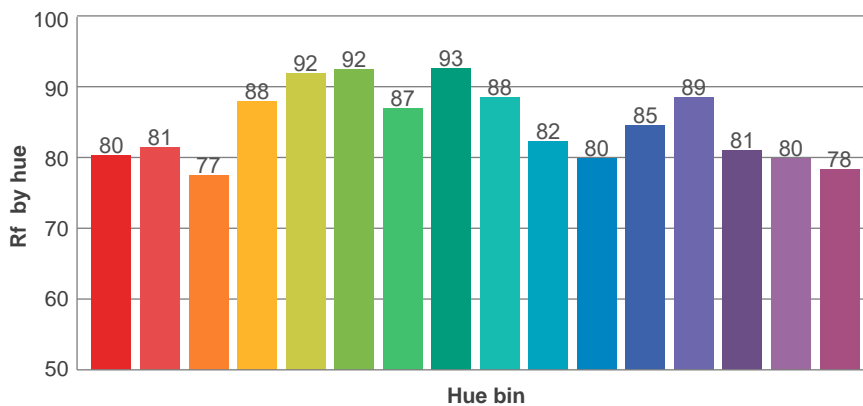
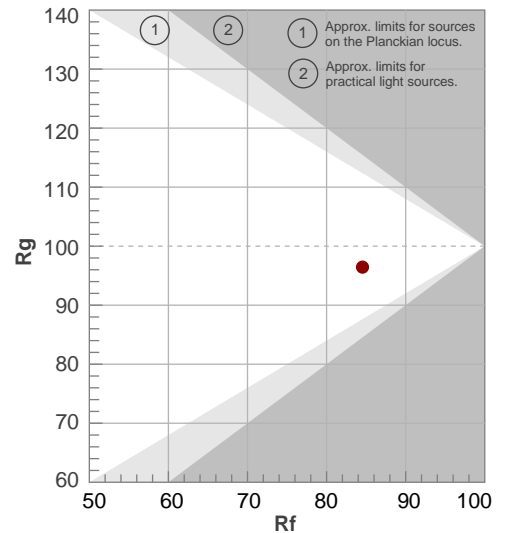
**Rf 84.5**

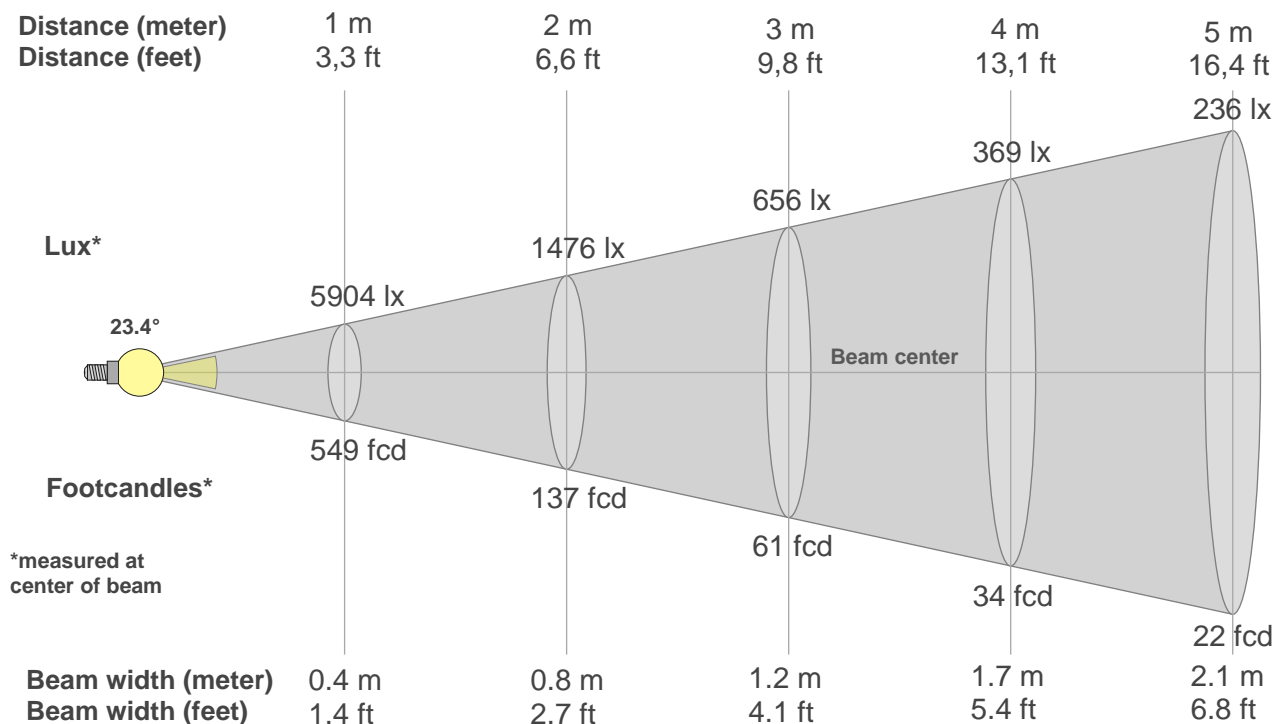
Fidelity index Rf

**Rg 96.4**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-1%
2	81	-8%	7%
3	77	-3%	12%
4	88	1%	8%
5	92	2%	4%
6	92	3%	-2%
7	87	-3%	-7%
8	93	-4%	-2%
9	88	-6%	3%
10	82	-5%	10%
11	80	-1%	15%
12	85	6%	5%
13	89	5%	-5%
14	81	6%	-14%
15	80	-2%	-13%
16	78	-7%	-16%





#### Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
5904lx	1476lx	656lx	369lx	236lx	164lx	120lx	92lx	73lx	59lx	49lx	41lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
548.5fcd	137.1fcd	60.9fcd	34.3fcd	21.9fcd	15.2fcd	11.2fcd	8.6fcd	6.8fcd	5.5fcd	4.5fcd	3.8fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

#### Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5904	5759	5402	4887	4265	3574	2903	2356	1929	1604	1357	1167	1029	928	837	757	665	547	416	286
100%	98%	91%	83%	72%	61%	49%	40%	33%	27%	23%	20%	17%	16%	14%	13%	11%	9%	7%	5%

#### Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5904	5783	5404	4853	4195	3494	2837	2289	1855	1534	1294	1110	972	868	781	706	613	494	370	250
100%	98%	92%	82%	71%	59%	48%	39%	31%	26%	22%	19%	16%	15%	13%	12%	10%	8%	6%	4%

#### Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5904	5805	5449	4930	4292	3592	2910	2335	1896	1570	1322	1133	993	891	808	724	621	497	367	244
100%	98%	92%	83%	73%	61%	49%	40%	32%	27%	22%	19%	17%	15%	14%	12%	11%	8%	6%	4%

#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
5904	5761	5398	4867	4215	3487	2818	2273	1845	1520	1282	1101	973	875	792	714	625	507	378	256
100%	98%	91%	82%	71%	59%	48%	38%	31%	26%	22%	19%	16%	15%	13%	12%	11%	9%	6%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.4°	65.3°	80°	99.8%	99.6%